

MEMORANDUM FOR: W/OSO113 - Lawrence M. Tyminski

FROM: W/OSO32 - William J. Von Feldt

SUBJECT: Engineering Management Reporting System (EMRS) Equipment Codes
For Fiscal Year 1997

Various changes have been incorporated into the attached EHB-4 Appendix C. Any line item that has undergone a change since the last update has background shading (). Changes include adding new equipment codes and redefining the definition of program code to include functionality. The plan is to be able to indicate primary maintenance responsibility. Also, we are in the process of examining work load estimates. For example, revised estimates for the ASOS are included.

Note that the estimated work loads for some equipment codes have yet to be determined (TBD). These work loads have been indicated by the abbreviation TBD. Some of our field users have indicated that they would prefer us to use just about any symbol for a placeholder other than 0.000, because it gives a false impression. We have also continued the practice of assigning 0.001 to indicate an estimated nominal work load.

One attachment is the synopsis of the changes since the formal November 9, 1994, Issuance 94-2, and November 1995, memorandum of changes to you.

An advance copy of EHB-4, Appendix C is also included. Those items changed since you saw the sign-off copy have been annotated (✓).

Attachments

cc:

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SUMMARY OF CHANGES TO EHB-4, APPENDIX C JANUARY 1997 ISSUANCE

Changes are shaded (). Discussion of the change immediately follows.

PGM	Program/Functionality Code [note: new codes (F, I, V) ^{1,2,3} have been added]
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The definition of the program column header, **PGM**, has been broadened to include functionality as well. Read **PGM** as **PGM/Functionality**, i.e., the column header **PGM** should be understood to encompass both the traditional program (e.g., Communications, Radar) and functionality (e.g., Facilities, Vehicle). In the various sections (e.g., C.1, C.2) the new codes (F = facilities; I = AWIPS; and V = vehicles) are indicated.

* = Functionality code (i.e., primary maintenance responsibility) TBD. For example, F* means that responsibility may ultimately be managed by regional facilities staff, the OSF, or the NRC.

When an asterisk (*) follows the PGM/Functionality code letter (e.g., F*), it means that although field electronics staff will/may do incidental maintenance work on a system/equipment, the subject system/equipment primary maintenance responsibility may be managed by other than the electronics program (e.g., management responsibility may be assigned to another organization such as regional facilities staff, the OSF, or the NRC. The important point to remember is that in today's complex and austere environment, maintenance responsibilities may be somewhat blurred and in order to ensure maximum maintenance, there must be a sharing or blending of available resources. That is another reason why timely, accurate reporting is so important--so that scarce resources (people, funds, objects) can be better managed.

Note 1: Code F (FAC) has been added under paragraph C.4. This is to capture incidental facilities work (including contract monitoring) performed by NWS field electronics staff. In addition to the Form A-26 *General and Equipment Information* sections, complete blocks 14,15, and 16. This will capture staff hours used and situation-specific information deemed important by the regions.

Note 2: Code I (PATH, early builds, AWIPS) is under contract maintenance; NWS is responsible for SYSTEMS ADMINISTRATION WORK only; and it is covered under AWIPS (under C.1). PATH sites continue reporting as PATH (under C.5).

Note 3: Code V (VEH) has been added under C.2. This will capture time consumed on vehicle maintenance by NWS field electronics staff.

Note 4: Work load estimates, in staff years, are provided to three decimal places. Where TBD is provided, it means that the estimate is *yet to be determined* (TBD).

The preceding four notes are self-explanatory.

C.1 Codes for Reportable Equipment. The affected item is listed first, followed by a brief discussion for the change.

<u>EQUIP</u>	<u>PGM</u>	<u>WKLD</u>	<u>DESCRIPTION</u>
AACU	S	0.010	ASOS ACQUISITION CONTROL UNIT
This work load was increased from 0.004 based in part on reported data.			
ADCP	S	0.007	ASOS DATA COLLECTION PLATFORM
This work load was increased from 0.004 based in part on reported data.			
AGTA	S	0.003	ASOS GROUND-TO-AIR RADIO
New equipment code; consensus has not been reached on the estimated work load.			
APER	S	0.004	ASOS PERIPHERALS (OID, VDU, CVD, AND PRINTER)
The description was changed; the GTA radio was broken out to be reported as AGTA.			
ASCA	S	TBD	ASOS SINGLE CABINET ASSEMBLY
New equipment code; consensus has not been reached on the estimated work load.			
ASOSP	S	0.014	AUTOMATED SURFACE OBSERVING SYSTEM (USED TO REPORT PREVENTIVE/ROUTINE MAINTENANCE, REMOTE MONITORING, AND SYSTEMS ADMINISTRATION)
This work load was increased from 0.004 based in part on reported data; the description was broadened.			
ATDP	S	0.009	ASOS TEMPERATURE AND DEWPOINT MEASURING SUBSYSTEM
This work load was increased from 0.004 based in part on reported data.			
AWIND	S	0.008	ASOS WIND SUBSYSTEM
This work load was increased from 0.004 based in part on reported data.			
AWIPS	I	0.500	AUTOMATED WEATHER INTERACTIVE PROCESSING SYSTEM (AWIPS)--REPORT ALL SYSTEMS ADMINISTRATION WORK USING THIS CODE.
New equipment code; use for reporting AWIPS systems administration work.			
AWLE	X	TBD	AWIPS-LIKE EQUIPMENT SYSTEMS ADMINISTRATION
New equipment code; consensus has not been reached on the estimated work load. Use for reporting systems administration work on other than AWIPS equipment.			
B222	C	0.075	DUAL NWR 1KW NWR TRANSMITTER (SRS)

<u>EQUIP</u>	<u>PGM</u>	<u>WKLD</u>	<u>DESCRIPTION</u>
Description changed to include power rating and manufacturer's name.			
B224	C	0.048	DUAL NWR 100-WATT TRANSMITTER (SRS)
New equipment code information.			
B230	C	0.001	DUAL NWR VHF 1KW TRANSMITTER (ENERGY-ONIX)
New equipment code information.			
B232	C	TBD	DUAL NWR 100-WATT TRANSMITTER (ENERGY-ONIX)
New equipment code information.			
B343	C	0.001	NWR SPECIFIC AREA MONITORING ENCODER (WSAME)
New equipment code information.			
B345	C	0.001	REMOTE OFF-AIR MONITORING SYSTEM (ROAMS) UPGRADE
New equipment code information.			
B440	C	0.024	NWR CONSOLE REPLACEMENT SYSTEM (CRS) (REDUNDANT)
New equipment code information.			
F420	S	0.020	BASIC F420 SERIES WIND SYSTEM WITH READOUTS, USED FOR AVIATION/SYNOPTIC OBS
Moved from section C.4.			
F420R	S	0.035	WIND SYSTEM (F420) WITH RETRANSMITTER (F611)
Moved from section C.4.			
GDP	X	0.005	GOVERNMENT DEVELOPMENT PLATFORM (GDP)
New equipment code information.			
LARC	H	0.016	LIMITED AUTOMATIC REMOTE COLLECTOR (HANDAR MOD 550A).
This work load was increased from 0.015 based in part on reported data; description modified.			
LID	H	0.001	LARC INTERFACE DEVICE (LID)
New equipment code information.			
PACE	S	0.010	PC-BASED ASYNCHRONOUS COMMUNICATIONS EXTENSION W/LINUX OS (ASOS INTO AFOS)--LIMITED IMPLEMENTATION
New equipment code information.			

<u>EQUIP</u>	<u>PGM</u>	<u>WKLD</u>	<u>DESCRIPTION</u>
RAAC	F*	0.005	WSR-88D AIR CONDITIONER UNIT. (INCIDENTAL FACILITIES WORK PERFORMED BY ELECTRONICS TECHNICIANS)
New equipment code information.			
RAEG was RAEP	F*	0.005	WSR-88D EMERGENCY POWER GENERATOR SUBSYSTEM. (INCIDENTAL FACILITIES WORK PERFORMED BY ELECTRONICS TECHNICIANS)
New equipment code information. (Note: The equipment code was changed from RAEP <u>to</u> RAEG to be consistent with existing policy. Report using code RAEG only.)			
RIDDS	R	TBD	RADAR INTERFACE & DATA DISTRIBUTION SYSTEM (WSR-88D). SYSTEM MALFUNCTION POC: @ NSSL HELP DESK, 405/366-0514; NO ON-SITE SPARES
New equipment code information.			
SAC	X	0.100	SCIENCE APPLICATIONS COMPUTER
New equipment code information.			
TRANP	U	0.035	TRANSPONDER RANGING SYSTEM USED IN ART1 AND ART2
This equipment code was moved from paragraph C.4.			
UDX	U	TBD	RADIOSONDE REPLACEMENT SYSTEM Note: This code represents the "direction finding" option.
New equipment code information.			
UNX	U	TBD	RADIOSONDE REPLACEMENT SYSTEM Note: This code represents the "navigation" option.
New equipment code information.			
UP2	U	0.001	ALASKA WIND PROFILER
New equipment code information.			
WKST	X	0.100	UNIX WORK STATION, HEWLETT-PACKARD, SUN
New equipment code information.			
WR74S	R	0.600	NETWORK RADAR WSR-74S (R020) (S-BAND)
This equipment code was increased from 0.500 based in part on reported data; the description was inaccurate; it was corrected (NETWORK AND LOCAL WARNING...).			
WSR88	R	TBD	WSR-88D SYSTEMS ADMINISTRATION WORK
New equipment code information.			

C.2 Codes Not Supported by National Weather Service Headquarters. The affected item is listed first, followed by a brief discussion for the change.

<u>EQUIP</u>	<u>PGM</u>	<u>WKL</u> <u>D</u>	<u>DESCRIPTION</u>
APT	C	TBD	AFOS PROTOCOL TRANSLATOR (APT) New equipment code information.
B430	C	0.001	NWR INTERIM DIGITAL CONSOLE, DIGITAL RECORDERS, INC. New equipment code information.
B431	C	0.001	NWR INTERIM DIGITAL CONSOLE, INTERALIA MODEL MMU2632RABMWR New equipment code information.
B432	C	0.001	NWR INTERIM DIGITAL CONSOLE, DALKE MODEL DBS-2 New equipment code information.
CMAN	X	0.001	COASTAL MARINE AUTOMATED NETWORK; NATIONAL DATA BUOY CENTER (NDBC) PROGRAM New equipment code information.
FRN	X	TBD	FRAME RELAY NETWORK New equipment code information.
OFFIC	X	0.065	MISC OFFICE EQUIPMENT, COPY MACHINES, NON-TELEPHONE INTERCOMS, TAPE RECORDERS, ETC. The description was changed to include non-telephone intercoms.
PC	X	0.030	IBM PC OR EQUIVALENT AND ASSOCIATED EQUIPMENT This work load is being researched. It appears high based on current technology.
PROSA	X	0.010	PC-REMOTE OBSERVING SYSTEM AUTOMATION (ROSA) W/LINUX OS--LIMITED IMPLEMENTATION New equipment code information.
RMDIS	X	TBD	<u>REGIONAL and MESOSCALE METEOROLOGY ADVANCED METEOROLOGICAL SATELLITE DEVELOPMENT and INTERPRETATION SYSTEM (RAMSDIS = RMDIS); NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE (NESDIS) PROGRAM</u> New equipment code information.
SEIS	X	0.004	SEISMIC EQUIPMENT NOT OTHERWISE IDENTIFIED This work load was decreased from 0.006 based in part on reported data.

<u>EQUIP</u>	<u>PGM</u>	<u>WKL</u>	<u>DESCRIPTION</u>
		<u>D</u>	

SOCAT	V	0.050	SNOW VEHICLE, ALL TYPES OF OFF-ROAD (e.g., SNOWCAT, SNOWMOBILE)
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The Program/Functionality code was changed from X to V; the description definition was broadened to include all types of off-road winter equipment.

TELCO	X	TBD	SITE TELEPHONE EQUIPMENT
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New equipment code information.

VEH	V	0.010	MAINTENANCE OF VEHICLES USED BY ELECTRONICS STAFF (e.g., AUTOS, VANS, 4WD VEHICLES)(EXCLUDES "SOCAT")
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New equipment code information; includes all vehicles EXCEPT except SOCAT.

WAN	X	TBD	REGIONAL WIDE AREA NETWORK, INCLUDING ASSOCIATED EQUIPMENT (e.g., ROUTER) (EXCLUDES AWIPS)
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New equipment code information.

C.3 Codes For Special National Systems. The affected item is listed first, followed by a brief discussion for the change.

<u>EQUIP</u>	<u>PGM</u>	<u>WKL</u>	<u>DESCRIPTION</u>
		<u>D</u>	

AIU	C	0.001	AUDIO INTERFACE UNIT FOR NWR (Submit work load only.)
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Overcome by events (OBE). This equipment code information moved to C.5.

C.4 Codes for Nonmandatory Reportable Equipment. The affected item is listed first, followed by a brief discussion for the change.

<u>EQUIP</u>	<u>PGM</u>	<u>WKLD</u>	<u>DESCRIPTION</u>
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B342	C	0.001	NWR WARNING DECODER/FIELD STRENGTH METER/7-CHANNEL RECEIVER (BATTERY REPLACEMENT ONLY)
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New equipment code information.

FAC	F	TBD	INCIDENTAL FACILITIES WORK PERFORMED BY FIELD ELECTRONICS STAFF, INCLUDING CONTRACT MONITORING, NOT SPECIFICALLY IDENTIFIED ELSEWHERE
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New equipment code information.

HMIS	H	0.012	MISCELLANEOUS HYDROLOGIC EQUIPMENT LISTED IN EHB-1
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The work load was increased from 0.010.

<u>EQUIP</u>	<u>PGM</u>	<u>WKLD</u>	<u>DESCRIPTION</u>
MCR	R	0.230	MICROWAVE RECEIVER
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
MCT	R	0.110	MICROWAVE TRANSMITTER
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
MCW	R	0.450	MICROWAVE SYSTEM FOR REMOTING WSR-57
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
PBT	U	0.003	PIBAL TIMING SYSTEM
			The program code (PGM) S was incorrect. The correct PGM code is U.
R540	R	0.015	ISOLATION DISTRIBUTION EQUIPMENT, WSR-57()
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
R580	R	0.170	RADAP II, RADAR DATA PROCESSOR SYSTEM
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
R581	R	0.040	INTERACTIVE COLOR RADAR DISPLAY (ICRAD)
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
R611	R	0.045	DIGITAL VIDEO INTEGRATOR AND PROCESSOR FOR S-BAND RADARS, MFG BY LOGICON CORP.
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
R652	R	0.010	CAMERA USED WITH WSR-57
			OBE. This equipment code information moved to C.5. WSR-57 associated subsystem decommissioned with the WSR-57 system.
RCMW	R	0.150	REMOTE CONTROL MICROWAVE SYSTEM FOR WSR-74()
			OBE. This equipment code information moved to C.5. WSR-74() associated subsystem not required for the remaining WSR-74() systems.
RJE	A	0.010	REMOTE JOB ENTRY EQUIPMENT
			OBE. This equipment code information moved to C.5.
RJES	A	0.035	MICROCOMPUTER REMOTE JOB ENTRY SYSTEM

<u>EQUIP</u>	<u>PGM</u>	<u>WKLD</u>	<u>DESCRIPTION</u>
OBE. This equipment code information moved to C.5.			
RKDC1	R	0.001	TELEPHONE COUPLER FOR KAVOURAS TRANSMITTER (WITH PADDLEBOARD)
OBE. This equipment code information moved to C.5. WSR-74(S) associated equipment not required for the remaining WSR-74(S) system.			
RKDC2	R	0.001	TELEPHONE COUPLER FOR KAVOURAS TRANSMITTER (WITHOUT PADDLEBOARD)
OBE. This equipment code information moved to C.5. WSR-74(S) associated equipment not required for the remaining WSR-74(S) system.			
TEST	X	0.005	GENERAL CODE FOR ALL SITE TEST EQUIPMENT (INCLUDES COORDINATION/ADMINISTRATION FOR CALIBRATION)
The description was changed to include test equipment calibration program coordination/administration.			

C.5 Codes That Have Been Deleted. The affected item is listed first, followed by a brief discussion for the change.

<u>EQUIP</u>	<u>PGM</u>	<u>DESCRIPTION</u>
AIU	C	AUDIO INTERFACE UNIT FOR NWR (Report info. only.)
Overcome by events (OBE).		
MCR	R	MICROWAVE RECEIVER
WSR-57 associated subsystem decommissioned with the WSR-57 system.		
MCT	R	MICROWAVE TRANSMITTER
WSR-57 associated subsystem decommissioned with the WSR-57 system.		
MCW	R	MICROWAVE SYSTEM FOR REMOTING WSR-57
WSR-57 associated subsystem decommissioned with the WSR-57 system.		
*PAP	I	PATH APPLICATIONS PROCESSOR
Codes with an asterisk (*) are OBE EXCEPT for the sites listed as the last item in this section (C.5). They should not be used by any other site(s).		

<u>EQUIP</u>	<u>PGM</u>	<u>DESCRIPTION</u>
*PATH	I	PROTOTYPE AUTOMATED WEATHER INTERACTIVE PROCESSING SYSTEM (PATHFINDER)--USE FOR REPORTING ALL PATH SYSTEMS ADMINISTRATION WORK
		OBE.
*PCI	I	PATH COMMUNICATIONS CIRCUITS
		OBE.
*PCP	I	PATH COMMUNICATIONS PROCESSOR
		OBE.
*PDE	I	PATH IMAGE, GRAPHICS, & TEXT DISPLAY EQUIPMENT
		OBE.
*PLAN	I	PATH LOCAL AREA NETWORK
		OBE.
*PPP	I	PATH PATCH PANEL
		OBE.
*PSBN	I	PATH SATELLITE BROADCAST NETWORK
		OBE.
*PWK	I	PATH WORK STATION
		OBE.
R540	R	ISOLATION DISTRIBUTION EQUIPMENT, WSR-57()
		WSR-57 associated subsystem decommissioned with the WSR-57 system.
R580	R	RADAP II, RADAR DATA PROCESSOR SYSTEM
		WSR-57 associated subsystem decommissioned with the WSR-57 system.
R581	R	INTERACTIVE COLOR RADAR DISPLAY (ICRAD)
		WSR-57 associated subsystem decommissioned with the WSR-57 system.
R611	R	DIGITAL VIDEO INTEGRATOR AND PROCESSOR FOR S-BAND RADARS, MFG BY LOGICON CORP.
		WSR-57 associated subsystem decommissioned with the WSR-57 system.
R652	R	CAMERA USED WITH WSR-57
		WSR-57 associated subsystem decommissioned with the WSR-57 system.

<u>EQUIP</u>	<u>PGM</u>	<u>DESCRIPTION</u>
RCMW	R	REMOTE CONTROL MICROWAVE SYSTEM FOR WSR-74() WSR-74() associated subsystem not required for the remaining WSR-74() systems.
RJE	A	REMOTE JOB ENTRY EQUIPMENT (RFC) OBE.
RJES	A	MICROCOMPUTER REMOTE JOB ENTRY SYSTEM OBE.
RKDC1	R	TELEPHONE COUPLER FOR KAVOURAS TRANSMITTER (WITHOUT PADDLEBOARD) WSR-74(S) associated equipment not required for the remaining WSR-74(S) system.
RKDC2	R	TELEPHONE COUPLER FOR KAVOURAS TRANSMITTER (WITH PADDLEBOARD) WSR-74(S) associated equipment not required for the remaining WSR-74(S) system.
WSR57	R	NETWORK RADAR WSR-57() (R005) (S-BAND) OBE. All WSR-57 radar systems have been decommissioned.
<p>* These codes remain reportable for the following sites only: Denver, CO (DEN); Norman, OK (OUN); Boston, MA (BOX); Taunton, MA (TAR); and Pittsburgh, PA (PBZ). For work load information, refer to EMRS Bulletin V, February 5, 1996.</p> <p>New codes will be assigned on an as needed basis for the AWIPS builds.</p>		